Appendix A

Please amend the following claims as indicated in the following marked up copy of the claims.

- 1. (Currently amended) Composition comprising
- (i) compounds represented by the following formula (1), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
- (ii) compounds represented by the following formula (1), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- (iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;
- (iv) compounds represented by the following formula (I), wherein each of Bl, B2 and B3 represent H; the weight ratio of the compounds (iii)/(ii)/(i) being 46 to 90/9 to 35/1 to 15:

Formula (1):

R' representing H or CH_3 , and each of m, n, and l independently representing a number from 0 to [4] $\frac{1}{2}$, the sum of m, n and l [being in the range of 1 to 4] in formula (I) is smaller than 2;

Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

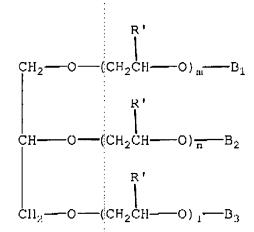
- 2. (Previously Amended) Composition according to claim 1, wherein the weight ratio of the compounds (ii.i)/(ii)/(i) is 60 to 83/16 to 35/1 to 6.
- 3. (Original) Composition according to claim 1, wherein R' in formula (I) represents H.
- 4. (Original) Composition according to claim 1, wherein the sum of m, n and l in formula (1) is in the range of 1.5 to

Sent By: Nath & Associates;

- 5. (Previously Amended) Composition comprising
- compounds represented by the following formula (T), (i) wherein each οf Bl, B2 and в3 independently represent a group represented by the following formula (II);
- compounds represented by the following formula (I), (ii) wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- compounds represented by the following formula (I), (jii) wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;
- (iv)compounds represented by the following formula (I), wherein each of B1, B2 and B3 represent II; the weight ratio of the compounds (iii)/(ii)/(i) being 60 to 83/16 to 35/1 to 6:

Formula (I):

202 775 8396;



R' representing H, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and 1 being in the range of 1.5 to 3.0;

Formula (II):

Sent By: Nath & Associates;



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

- 6. (Original) Composition according to claim 5, wherein the sum of m, n and l in formula (I) is smaller than 2.
- 7. (Original) Composition according to claim 5, wherein the weight ratio (i)+(ii)+(iii)/(iv) is in the range of 85/15 to 40/60.
- 8. (Previously Amended) Method for the preparation of a composition comprising
 - compounds represented by the following formula (I), (i) wherein cath of B1, B2 and B3 independently

represent a group represented by the following formula (II);

- (ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- (iii) compounds represented by the following formula (I), wherein one of Bl, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;

Formula (T):

$$R'$$
 $CH_2 \longrightarrow O \longrightarrow (CH_2CH \longrightarrow O)_m \longrightarrow B_1$
 R'
 $CII \longrightarrow O \longrightarrow (CH_2CH \longrightarrow O)_m \longrightarrow B_2$
 R'
 $CH_2 \longrightarrow O \longrightarrow (CH_2CII \longrightarrow O)_1 \longrightarrow B_3$

R' representing H or CH_3 , and each of m, n, and 1 independently representing a number from 0 to 4, the sum of m, n and 1 being in the range of 1 to 4;

5

Formula (II):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms;

the method comprising the following steps:

Sent By: Nath & Associates;

subjecting a mixture of glycerine and a compound of a) the following formula (III) to an interestification reaction:

(111)

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and

- subjecting the reaction mixture obtained in step a) to b) an alkoxylation using an alkylene oxide having 2 or 3 carbon atoms in the presence of an alkaline catalyst.
- 9. (Previously Amended) Method for the preparation of a composition comprising
 - compounds represented by the following formula (1), (i) wherein each of B1, В2 and B3 independently represent a group represented by the following

formula (II);

- compounds represented by the following formula (I), (ii) wherein two of Bl, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- compounds represented by the following formula (T), (i.ii)wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing H;
- compounds represented by the following formula (T), (iv) wherein each of B1, B2 and B3 represent H; the weight ratio of the compounds (iii)/(ii)/(i) being 46

Formula (I):

to 90/9 to 35/1 to 15:

$$CH_{2}$$
— O — $(CH_{2}CH$ — $O)_{m}$ — B_{1}
 R'
 CH — O — $(CH_{2}CH$ — $O)_{n}$ — B_{2}
 R'
 CH_{2} — O — $(CH_{2}CH$ — $O)_{1}$ — B_{3}

representing H or CH3, and each of m, n, and 1 independently representing a number from 0 to 4, the sum of m, n and 1 being in the range of 1 to 4;

Formula (II):



Sent By: Nath & Associates;

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms;

the method comprising the following steps:

- a') reacting a mixture of glycerine and alkylene oxide having 2 or 3 carbon atoms in the presence of an alkaline catalyst, and
- b') reacting the reaction mixture obtained in step a')
 with a compound of the following formula (IV):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and X represents a methyl group or H.

- 10. (Previously Amended) Detergent composition containing a composition comprising the following compounds (i) to (iv) in an amount of 0.5 to 20 wt.-%.
 - (i) compounds represented by the following formula (1), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
 - (ii) compounds represented by the following formula (!), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing II;
 - (iii) compounds represented by the following formula (I),

Sent By: Nath & Associates; 202 775 8396;

wherein one of B1, B2 and B3 represents a group represented by the following formula (11); the remainder representing II;

compounds represented by the following formula (1), (iv) wherein each of B1, B2 and B3 represent H;

the weight ratio of the compounds (iii)/(ii)/(i) being 46 to 90/9 to 35/1 to 15:

Formula (I):

$$CH_{2}$$
— O — $(CH_{2}CH$ — $O)_{m}$ — B_{1}
 R'
 R'
 CH — O — $(CH_{2}CH$ — $O)_{n}$ — B_{2}
 R'
 R'
 CH_{2} — O — $(CH_{2}CH$ — $O)_{1}$ — B_{3}

R' representing H or CH_3 , and each of m, n, and 1 independently representing a number from 0 to 4, the sum of m, n and 1 being in the range of 1 to 4;

Formula (11):

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

11. (Previously Amended) Delergent composition containing a composition comprising the following compounds (i) to (iv) in an amount of 1 to 8 wt.-%.

- (i) compounds represented by the following formula (I), wherein each of Bl, B2 and B3 independently represent a group represented by the following formula (II);
- compounds represented by the following formula (I), (ii)wherein two of Bl, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing H;
- compounds represented by the following formula (I), (iii) wherein one of B1, B2 and B3 represents a group represented by the following formula (11); the remainder representing H;
- compounds represented by the following formula (I), (iv) wherein each of B1, B2 and B3 represent H;

the weight ratio of the compounds (iii)/(ii)/(i) being 60 to 83/16 to 35/1 to 6:

Formula (I):

$$\begin{array}{c} R' \\ CH_{2} - O - (CH_{2}CII - O)_{m} - B_{1} \\ R' \\ CII - O - (CH_{2}CH - O)_{m} - B_{2} \\ R' \\ CH_{2} - O - (CH_{2}CH - O)_{1} - B_{3} \end{array}$$

R' representing H, and cach of m, n, and l independently representing a number from 1 to 4, the sum of m, n and 1 being in the range of 1.5 to 3.0;

Formula (TT):



wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.

US 6,265,373 B1

202 775 8396;

9

10

		:			•		
-continued				-continued			
COMPONENTS				Hair conditioner			
Emal @ 227E from Kao)			_ `	COMPONENTS	HC1	HC2	
odium Cocoamphoacetate (40% Dry) Betadet @ SHC-2 from Kao)	7.5	ļ		ANALYSIS	~		
asople R product	3.5			Апрентапсе	White	White	
auryl hydroxyxultaine (45% Dry)	5.0				viscous	VIMOUR	
letadet 00 S 20 from Kao)	A.E.		10	он (100%)	emulsion 4–6	emulsion 4: 6	
llete esterquar (80% Dry Matter) Retranyl & CO-40 from Kao)	0.5			Viscosity (qus) 70° C	~5000	-5000	
earling agent (Danox 90 BI-22	3.0			% Dry matter	4.5-5.5	4.5-5.5	
out Kao)		i		Stability	OK	OK	
crfome	e.q.		15				
IaC1	e.q.		15				
nacivitiva	c.q.	•					
NALYSIS							
рреагапсо	Pearle	el .		Manual dis	hwashmg_		
1)//caranco	viscou		20	COMPONENTS	MD1	MD3	
	liquio			Paris since discount			
H (100%)	6.0-6.			Deinnized water No Laurylethemulfute (70%)	ω 100 9.5	to 100 17.0	
iscosity (qua) 20" C.	-7 000			Ory) (Ental @ 270E from Kao)	y. y	17.0	
lity matter	19 2	١ .		Sodium C14-16 Olofin Sulfonste	27.0	14.7	
labilily	OK	į	25	(37% Dry) (Allieus 90 46 from Kao)			
		-		Cocoamidopropoxybetnine (34%	2.0	2.0	
				Dry) (Boundet & HR)			
				Cocounid DEA (Amidet @ B-112	1.0	1.0	
	*****		_	from Kao) Example E' product	2.0	2.0	
Bath gel			30	NaCl	2.0	1.5	
COMPONENTS				Formaldehyde 40%	0.1	0.1	
COMICNENTS		÷	_	ANALYSIS			
Deionized water	tn '			Арреалопес	Transparent	Тиварагов	
Sodium Lauryl sulfate (27% Dry)	37	.0 :		· · · · · · · · · · · · · · · · · · ·	ATRICOTA	viscons	
(Emal 99 277 F. from Kao) Cocoamidopropoxybetaine (34% Dr	rv) 10.	σ:	35		liquid	liquid	
(Detadet @ ITR from Kao)	.,,			pH (100%) Viscosity (cps) 20° C.	6.5- 7.5 400- 800	6.5-7.5 400 800	
Example P product	2.			Turbidity point ("C.)	-6	-4 -4	
Perfume Net 3	D. 0.			% Dry matter	22 24	22-24	
Preservative: Kathon CG 4		05		Washed dishes	17	17	
from Rohm & Hazis			40	Stability	OK	OK	
EDTA.Na, ANALYSIS	0.0)5					
ANALISIS							
Appermen	Transp						
	visc		45	All oncoors	cleaper		
liquid pH (100%) 5.0 6.0			43	All turbose cleaner			
Viscosity (cps) 20° C.	6000-	HÍXKI		COMPONENTS			
Turbidity point (° C.)	, s			Deionized water		lu 100	
% Dry matter Stability	1Å- Ó			Sodium C14-16 Olelin Sullona	le	14.6	
			— so	(37% Dry) (Allanox @ 46 trum			
				Example E' product		2.0	
				Tetrapotasaium pyrophosphate Burylglycol		3.0 1.0	
		<u> </u>		P.DTA.No.		2.3	
Hair conditioner				Perfume		e.y.	
eant canalida			>>	Preservative		c.q.	
UMPONENTS	HCl	Hen	••	ANALYSIS			
eionized water	to 100	to 100	_	Appearance		Transparent	
eronized water withleneblycol	2.0	2.0		wes / 119105		liquid	
ioleic esterunt (80% Dry	1.9	+		рН (100%) Viscosity (срк) 20° C.		7.0—8.0 <10	
latter) (Terranyl & CO-40			60	% Dry matter		13.0-14.0	
om Kao) etrimonium Chloride (25% Dry)	. 	6 .0		Stability		OK	
Quartemin @ 60W25 from Kan)				· · · · · · · · · · · · · · · · · · ·			
dunyi alcohol (Kalcol @ 6870	3.0	\$.0		What is claimed is:			
om Kao)	0.5	.s		L. Composition comprising			
sample & product	0.g.	ψ.:: ψ.:::	65	(i) compounds represented h	y the follow	ing formula	
reservative	c.q.	d.q.		wherein each of HI, H2 a			
ICHELANDAE	****	A. F.		sent a group represented b			

US 6,265,373 B1

13

Forumia (II):

__[]__

0,203,375

20

Formula (II):

14

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms;

the method comprising the following steps:

 a) subjecting a mixture of glycerine and a compound of the following formula (III) to an interesterification reaction:

(m)

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and

- b) subjecting the reaction mixture obtained in step a) to an alkoxylation using an alkylene oxide having 2 or 3 30 carbon atoms in the presence of an alkaline datalyst.
- 9. Method for the preparation of a composition compris-
 - (i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
 - (ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently terresent a group represented by the following formula (II), the 40 remainder representing II;
 - (iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing II;
 - (iv) compounds represented by the Inflowing formula (I), wherein each of B1, B2 and B3 represent H; the weight ratio of the compounds (i)/(ii)/(iii) being 46 to 90/9 to 35/1 to 15:

Formula (I):

$$\begin{array}{c} R' \\ CH_2 - O - (CH_2CH - O)_m - B1 \\ R' \\ CH_2 - O - (CH_2CH - O)_m - B2 \\ R' \\ CH_2 - O - (CH_2CH - O)_1 - B3 \end{array}$$

R' representing H or CH₃, and each of m, h, and 1 as independently representing a number from 0 to 4, the sum of m, n and 1 being in the range of 1 to 4;

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms;

the method comprising the following steps:

- a') reacting a mixture of glycerine and alkylene oxide having 2 or 3 carbon atoms in the presence of an alkaline catalyst, and
- b') reacting the reaction mixture obtained in step a') with a compound of the following formula (IV):

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and X represents a methyl group or H.

- 10. Detergent composition containing a composition comprising the following compounds (i) to (iv) in an amount of 0.5 to 20 wt.-%.
 - (i) compounds represented by the following formula (I), wherein each of B1, B2 and B3 independently represent a group represented by the following formula (II);
 - (ii) compounds represented by the following formula (I), wherein two of B1, B2 and B3 independently represent a group represented by the following formula (II), the remainder representing II;
 - (iii) compounds represented by the following formula (I), wherein one of B1, B2 and B3 represents a group represented by the following formula (II); the remainder representing II;
 - (iv) compounds represented by the following formula (I), wherein each of Bi, B2 and B3 represent II; the weight ratio of the compounds (i)/(ii)/(iii) being 46 to 90/9 to 35/1 to 15:

50 Formula (1):

R' representing II or CH₂, and each of m, n, and I independently representing a number from 0 to 4, the sum of m, n and I being in the range of 1 to 4;